

**CLAIM AMENDMENTS**

**IN THE CLAIMS**

This listing of the claims will replace all prior versions, and listing, of claims in the application or previous response to office action:

1-4. (Canceled).

5-17. (Canceled).

18-34. (Canceled).

35. (Canceled).

36-40. (Canceled).

41. (Canceled).

42. (Canceled).

43-46. (Canceled).

47. (Allowed) A method to reduce the absorption of ultraviolet radiation by the skin of a mammal, the method comprising:

applying a formulation consisting essentially of DNA of an average size of at least about 10,000 base pairs to the skin of a mammal to reduce the absorption of ultraviolet radiation by the skin of said mammal.

48-54. (Canceled).

55. (Allowed) The method of claim 47, wherein the ultraviolet radiation is UVB radiation.
56. (Allowed) The method of claim 47, wherein applying said formulation to said mammal results in a reduction in the amount of ultraviolet radiation absorbed by the skin of said mammal.
57. (Allowed) The method of claim 47, wherein applying said formulation to said mammal results in at least about a 90% reduction in the amount of ultraviolet radiation absorbed by the skin of said mammal.
58. (Allowed) The method of claim 47, wherein applying said formulation results in at least about a 95% reduction in the amount of ultraviolet radiation absorbed by the skin of said mammal.
59. (Allowed) The method of claim 47, wherein applying said formulation results in at least about a 99% reduction in the amount of ultraviolet radiation absorbed by the skin of said mammal.
60. (Allowed) The method of claim 47, wherein the ultraviolet radiation absorbed by the skin of the mammal is less than a minimum erythema dose for the mammal after a one hour exposure to the ultraviolet radiation.
61. (Allowed) The method of claim 47, wherein the ultraviolet radiation absorbed by the skin of the mammal is less than a minimum erythema dose for the mammal after a four hour exposure to the ultraviolet radiation.
62. (Allowed) The method of claim 47, wherein the ultraviolet radiation absorbed by the skin of the mammal is less than a minimum erythema dose for the mammal after an eight hour exposure to the ultraviolet radiation.
63. (Allowed) The method of claim 47, wherein the mammal is human.

64. (Allowed) The method of claim 47, wherein the mammal is a dog or a cat.
65. (Allowed) The method of claim 47, wherein the formulation further comprises a compound selected from the group consisting of phenylalanine, tryptophan, tyrosine, keratin, albumin, collagen, elastin, riboflavin, and retinoic acid.
66. (Allowed) The method of claim 47, wherein the DNA is methylated.
67. (Allowed) The method of claim 47, wherein the nucleic acids are in a cholesteric liquid phase, a lyotropic liquid crystal phase, or a precholesteric phase.
68. (Allowed) The method of claim 47, wherein the formulation further comprises a compound selected from the group consisting of apurinic acids, purines, and uric acids.
69. (Allowed) The method of claim 47, wherein the formulation further comprises a compound selected from the group consisting of water, alcohols, water-soluble alcohols, dimethyl sulfoxide, antifungal agents, antibacterial agents, buffers, perfumes, dyes, aloe, and sorbitols.
- 70-72. (Canceled).